

## EAST Search History

| Ref # | Hits  | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|-------|--|---|------------------|---------|------------------|
| L1    | 47803 | (piezoelectric or (piezo adj electric)) and crystal\$6                     | US-PGPUB;<br>USPAT;<br>USOCR                            | OR               | OFF     | 2007/02/22 10:09 |
| L2    | 28179 | (piezoelectric or (piezo adj electric)) same crystal\$6                    | US-PGPUB;<br>USPAT;<br>USOCR                            | OR               | OFF     | 2007/02/22 10:13 |
| L3    | 2251  | 2 and (crystal\$6 near7 size\$1)   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR               | OFF     | 2007/02/22 10:11 |
| L4    | 1427  | 3 and electrode\$1   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR               | OFF     | 2007/02/22 10:12 |
| L5    | 1128  | 4 and ((piezoelectric or (piezo adj electric)) near10 crystal\$6)          | US-PGPUB;<br>USPAT;<br>USOCR                            | OR               | OFF     | 2007/02/22 11:00 |
| L6    | 1707  | 257/415,417,418,419.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR               | OFF     | 2007/02/22 11:00 |
| L7    | 356   | 6 and (piezoelectric or (piezo adj electric))                              | US-PGPUB;<br>USPAT;<br>USOCR                            | OR               | OFF     | 2007/02/22 11:02 |
| L8    | 1187  | 6 not 7  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2007/02/22 12:35 |
| L9    | 30    | piezoelectric.clm. and electrode.clm. and crystal\$6.clm. and size\$1.clm. | US-PGPUB;<br>USOCR                                      | OR               | OFF     | 2007/02/22 12:47 |
| L10   | 8     | 9 and (crystal\$6.clm. same size\$1.clm. )                                 | US-PGPUB;<br>USOCR                                      | OR               | OFF     | 2007/02/22 12:47 |
| S1    | 197   | 438/150.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2007/02/21 21:24 |
| S2    | 1034  | 438/30.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2007/02/21 21:28 |
| S3    | 121   | 438/187,198.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2007/02/21 21:43 |

## EAST Search History

|     |       |  |   |    |     |                  |
|-----|-------|--|---|----|-----|------------------|
| S4  | 961   | S2 and crystal\$6  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/02/21 21:36 |
| S5  | 4     | ((("5650810") or ("6336717"))).PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/02/21 21:43 |
| S6  | 2     | ("4584590"   "5376857").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2007/02/22 09:54 |
| S7  | 4     | ("6336717").URPN.  | USPAT   | OR | OFF | 2007/02/21 21:47 |
| S8  | 6     | ("4434430"   "4879568"   "4887100"  <br>"5016028"   "5410341"   "5430344").<br>PN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2007/02/21 21:48 |
| S9  | 6     | ("5650810").URPN.  | USPAT   | OR | OFF | 2007/02/21 21:47 |
| S10 | 53    | S4 and ((ink adj jet) or (ink adj head)<br>or (liquid adj jet))                    | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2007/02/21 22:08 |
| S11 | 939   | S4 and (liquid or ink or jet or print\$3)  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2007/02/21 21:54 |
| S12 | 886   | S11 not S10  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2007/02/21 21:54 |
| S13 | 3     | ("2002084012").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/02/21 22:10 |
| S14 | 64219 | piezoelectric.ti.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/02/21 22:11 |
| S15 | 13    | S14 and (piezoelectric adj material).ti.<br>and sumi.in.                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/02/21 22:12 |